

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

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of

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Complete if Known

Application Number	09/830,954
Filing Date	May 3, 2001
First Named Inventor	Beka SOLOMON et al.
Group Art Unit	1647
Examiner Name	NICHOLS
Attorney Docket Number	SOLOMON=2C

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
CS	AA	5,811,093		MERRIL et al.,	09-22-1998	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Number		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number				
CS	AB	PCT	WO 92/07077	GREENWOOD	04-30-1992		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
CS	AC	SMITH, "Surface presentation of protein epitopes using bacteriophage expression systems", <u>Current Opinion in Biotechnology</u> , 2:668-673 (1991)	
	AD	RENAULD-MONGENIE et al., "Induction of mucosal immune responses against a heterologous antigen fused to filamentous hemagglutinin after intranasal immunization with recombinant <i>Bordetella pertussis</i> ", <u>Proc. Natl. Acad. Sci. USA</u> , 93:7944-7949 (1996)	
	AE	CESARENI et al., "Minireview Peptides display on filamentous phage capsids a new powerful tool to study protein ligand interaction", <u>FEBS Letters</u> , 307:66-70 (1992)	
	AF	HUSE et al., "Application of a filamentous phage pVIII fusion protein system suitable for efficient production screening, and mutagenesis of F(ab) antibody fragments", <u>The Journal of Immunology</u> , (1992)	
	AG	JONES et al., "Display of antibody chains on filamentous bacteriophage", <u>Methods in Molecular Biology</u> , 80:449-459 (1998)	
	AH	CHANG et al., "Expression of antibody Fab domains on bacteriophage surfaces potential use for antibody selection", <u>Journal of Immunology</u> , 147:3610-3614 (1991)	
	AI	GLASER et al., "Antibody engineering by codon-based mutagenesis in a filamentous phage vector system", <u>The Journal of Immunology</u> , 149:3903-3913 (1992)	
CS	AJ	HOOGENBOOM et al., "Building antibodies from their genes", <u>Immunological Reviews</u> , 130:41-68 (1992)	

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

4/30/01 CS

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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	AK	BARBAS et al., "Semisynthetic combinatorial antibody libraries: a chemical solution to the diversity problem", <u>Natl. Acad. Sci. USA</u> , 4457:4461 (1992)	
	AL	MARKS et al., "Molecular evolution of proteins on filamentous phage", <u>The Journal of Biological Chemistry</u> , 267:16007-16010 (1992)	
	AM	HAWKINS et al., "Selection of phage antibodies by binding affinity mimicking affinity maturation", <u>J. Mol. Biol.</u> , 226:889-896 (1992)	
	AN	WETZEL, "Commentary learning from the immune system laboratory methods for creating and refining molecular diversity in polypeptides", <u>Protein Engineering</u> , 4:371-374 (1991)	
	AO	LERNER et al., "Antibodies without immunization", <u>Science</u> , 258:1313-1314 (1992)	
	AP	BARBAS et al., "Recombinant human Fab fragments neutralize human type 1 immunodeficiency virus <i>in vitro</i> ", <u>Proc. Natl. Acad. Sci. USA</u> , 89:9339-9343 (1992)	
	AQ	ZEBEDEE et al., "Human combinatorial antibody libraries to hepatitis B surface antigen", <u>Proc. Natl. Acad. Sci. USA</u> , 89:3175-3179 (1992)	
	AR	GRAM et al., " <i>In vitro</i> selection and affinity maturation of antibodies from a naïve combinatorial immunoglobulin library", <u>Proc. Natl. Acad. Sci. USA</u> , 89:3576-3580 (1992)	
	AS	KANG et al., "Antibody redesign by chain shuffling from random combinatorial immunoglobulin libraries", <u>Proc. Natl. Acad. Sci. USA</u> , 88:11120-11123 (1991)	
	AT	MARKS et al., "Molecular evolution of proteins on filamentous phage", <u>The Journal of Biological Chemistry</u> , 267:16007-16010 (1992)	
	AU	GARRARD et al., "Assembly and enrichment in a monovalent phage display system", <u>Biotechnology</u> , 9:1373-1377 (1991)	
	AV	GOESSLING et al., "Enhanced degradation of the ferritin repressor protein during induction of ferritin messenger RNA translation", <u>Science</u> , 256:670 (1992)	
	AW	MARKS et al., "By-passing immunization human antibodies from V-gene libraries displayed on phage", <u>J. Mol. Biol.</u> , 222:581-597 (1991)	

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	AX	CLACKSON et al., "Letters to nature making antibody fragments using phage display libraries", <u>Nature</u> , 352:624-628 (1991)	—
	AY	BARBAS et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site", <u>Proc. Natl. Acad. Sci. USA</u> , 88:7978-7982 (1991)	—
	AZ	MCCAFFERTY et al., "Letters to nature phage antibodies: filamentous phage displaying antibody variable domains", <u>Nature</u> , 348:552-554 (1990)	—
	BA	KANG et al., "Linkage of recognition and replication functions by assembling combinatorial antibody Fab libraries along phage surfaces", <u>Proc. Natl. Acad. Sci. USA</u> , 88:4363-4366 (1991)	—
	BB	BURTION et al., "A large array of human monoclonal antibodies to type 1 human immunodeficiency virus from combinatorial libraries of asymptomatic seropositive individuals", <u>Proc. Natl. Acad. Sci. USA</u> , 88:10134-10137 (1991)	—
	BC	BREITLING et al., "A surface expression vector for antibody screening", <u>Gene</u> , 104:147-153 (1991)	—
	BD	HOOGENDOORN et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains", <u>Nucleic Acids Research</u> , 19:4133-4137 (1991)	—
	BE	BARBAS et al., "Human monoclonal Fab fragments derived from a combinatorial library bind to respiratory syncytial virus F glycoprotein and neutralize infectivity", <u>Proc. Natl. Acad. Sci. USA</u> , 89:10164-10168 (1992)	—
	BF	SOMERVILLE et al., "Immunodetection of PrP ^{Sc} in spleens of some scrapie-infected sheep but not BSE-infected cows", <u>Journal of General Virology</u> , 7:2389-2396 (1997)	—
	BG	FRENKEL et al., "N-terminal EFRH sequence of Alzheimer's β -amyloid peptide represents the epitope of its anti-aggregating antibodies", <u>Journal of Neuroimmunology</u> , 88:85-90 (1998)	—
	BH	SCHENK et al., "Letters of nature immunization with amyloid- β attenuates Alzheimer-disease-like pathology in the PDDAPP mouse", <u>Nature</u> , 400:173-177 (1999)	—
	BI	SOLOMON et al., "Monoclonal antibodies inhibit <i>in vitro</i> fibrillar aggregation of the Alzheimer β -amyloid peptide", <u>Proc. Natl. Acad. Sci. USA</u> , 93:452-455 (1996)	—

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